



Annex to 2010 Association of Bay  
Area Governments  
Local Hazard Mitigation Plan  
*Taming Natural Disasters*

East Bay Regional Park District

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## Introduction

The purpose of this annex is to include the East Bay Regional Park District (EBRPD) into the Associations of Bay Area Governments' (ABAG's) regional Local Hazard Mitigation Plan (LHMP). EBRPD participation in this plan is voluntary, but necessary in order to be eligible for future Federal Emergency Management Agency (FEMA) mitigation funding.

EBRPD is a special district located in Alameda and Contra Costa Counties, California. The EBRPD has a total area of 104,354 acres in 65 different parks. This year, 2010, the EBRPD's total budget is \$197.1 million. The EBRPD employs 622 permanent personnel and 85 seasonal/temporary personnel. The EBRPD provides police and fire services on its parklands and assists local agencies with mutual aid. A map of the district boundary is provided in **Exhibit A** to the EBRPD 2010 Annex.

## The Regional Planning Process

EBRPD participated in various ABAG workshops, conferences, and meetings, including:

- One (1) Sub-regional meetings to review draft priorities and reach consensus on priorities for mitigation;
- Four (4) ABAG Regional Planning Committee meetings
- One (1) County/City Workshops

EBRPD's participation in these meetings was important to provide input into the development of the regional mitigation strategies and priorities that were important to the District and to provide a different perspective on hazard mitigation from that of many cities and counties.

For more information on these meetings and for rosters of attendees, please see Appendix A and H in the ABAG Multi-Jurisdictional Local Hazard Mitigation Plan 2010 (MJ-LHMP). In addition, EBRPD has provided written and oral comments on the multi-jurisdictional plan and provided information on facilities that are defined as "critical" to ABAG.

## The Local Planning Process

EBRPD has made serious efforts towards hazard mitigation by developing the Public Safety Policy Manual, which identifies appropriate procedures during emergencies. In the instance of natural disasters this manual directs control to the Emergency Operations Plan (EOP). EBRPD orchestrates annual Emergency Operations Command Center Training meetings that provide guidance on how to respond to an emergency within the boundaries of the EOP; from the initial onset, the response, to the cost recovery process. The EOP integrates planning from multiple jurisdictions, with content based upon the guidelines established by the State of California and the Federal Emergency Management Agency. Its distribution of tasks is consistent with California's Standardized Emergency Management System (SEMS) and National

Incident Management System (NIMS). Three SEMS training sessions have been successfully completed by EBRPD and EBRPD is planning to implement NIMS training.

EBRPD collaborates with surrounding agencies in the Hills Emergency Forum (HEF) as another act of hazard foresight. HEF brings together federal, state, and local agencies in the east bay hills for interagency fire preparedness planning. Their efforts seek to: facilitate the sharing of information on fire hazards in the east bay hills, be a forum for developing interagency consensus on fire safety standards and response, educate the public, and develop fuel reduction strategies. The forum meets monthly to develop consistency among the member agencies.

The EBRPD holds weekly Public Safety Command Staff meetings to review on-going dangers from natural and man made disasters within EBRPD and to assess response capabilities. These meetings keep the staff aware of the condition EBRPD is in and contribute to efficient response.

Additionally, all of EBRPD facilities are subject to comprehensive risk safety inspection tours. All monitoring and safety tours are based on EBRPD specific "Fire and Life Safety Inspection Form". A formal inspection on a two-year rotational basis is performed on all facilities, while the primary sites are monitored annually. The tours examine and address susceptibility to man made and natural hazards.

Many of the activities conducted by EBRPD were fed into the planning process for the multi-jurisdictional multi-hazard plan. EBRPD participated in various ABAG workshops and meetings, including the general "kick-off" meeting and provided information on facilities within EBRPD that are viewed as "critical" to ABAG.

### *Process for Updating Plan Sections*

In 2009, key district staff reviewed EBRPD's mitigation strategies to identify and prioritize mitigation strategies appropriate for EBRPD's 2010 update of its Local Hazard Mitigation Plan. Staff involved in this review included the Chief of Maintenance & Skilled Trades (The Chief of Maintenance and Skilled Trades contributes information on preventative maintenance, repair and emergency repair response. They Chief provides important information on mitigation priorities.), Legal Counsel (Legal Counsel contributes and over sees the legal aspects of the District risk, human resources and construction activities.), Risk Manager (The Risk Manager is responsible for work and building safety this includes hazardous materials and safety training and the District's emergency response plans.), Assistant General Manager of Development, (The AGM of Development is responsible for all of the construction and engineering activities of the District and contributes information of the District's capital development plans and project estimates.)Chief and Assistant General Manager of Operations, (Operations is responsible to for the nearly 400 personnel assigned to the parks. They contribute up to date emergency response and reporting during a disaster. They have some of the best information of mitigation priorities.) Assistant Fire Chief (The Assistant Fire Chief contributes the coordination of

emergency response and preparedness with outside agencies.), Stewardship Manager (The Stewardship manager contributes important permitting and regulatory considerations in forming mitigation projects and responding during disasters.), Chief Financial Officer/Controller (The CFO contributes capital improvement program funding and budgetary information.), and Police Captain (The Police Captain provides operation emergency response capabilities and overall emergency response management.). The general priorities and appropriate EBRPD departments to handle them were identified.

The Planning Process section was updated to reflect the activities that took place as part of the plan update process. The Risk Assessment section was updated to include the new hazard mapping and land use data. The Hazards Assessment section included any new disasters that occurred since the last plan and reflected updates to the hazard maps. The planning team reviewed each section of the plan and determined that there needed to be updates based on new information or better data.

***Public Meetings***

EBRPD provided the opportunity for the public to comment on the mitigation strategies selected by EBRPD staff during open session at the EBRPD Board meeting on September 1, 2009. The meeting was held at EBRPD Main Offices in Oakland. In preparation for the meeting, the draft mitigation strategies were posted on EBRPD’s website with the Board Meeting Agenda on August 27, 2009. In addition, the draft mitigation strategies selected by staff were posted on EBRPD’s website from September 1, 2009 to October 7, 2010. The strategies were posted to EBRPD’s planning page on its website which is routinely review by the public. The objective of the meeting was to learn about the District’s planned actions and to insure that the District had addressed all of the hazards of concern to the public. By engaging the public the District hope to gain and better understanding of the risk hazards threatening the public. Any feedback from the public meetings would be incorporated into the appropriated hazards sections in the plan by both hazard and infrastructure type. No public comments were received from either the meeting or the internet posting. Copies of the internet posting and public hearing are included as Exhibit B to the EBRPD 2010 Annex.

The EBRPD Board of Directors will adopt the plan in a public meeting via an official Resolution upon approval by FEMA. The adopted mitigation strategies will become an implementation appendix to the Safety Element of the EBRPD EOP.

**Review of Existing Plans**

Existing plans, studies, reports, and technical information	Method of incorporation into the jurisdiction annex
Hills Emergency Forum, 2010 Annual Report	Hazards Assessment, fire treat and priority mitigation actions
California 2010 Draft Strategic Fire	Hazards Assessment, fire treat and

Plan	priority mitigation actions
Contra Costa County, Community Wildfire Protection Plan	Hazards Assessment, fire treat and priority mitigation actions

## Hazards Assessment

The ABAG Multi-Jurisdictional Local Hazard Mitigation Plan, to which this is an annex, lists nine hazards that impact the Bay Area, five related to earthquakes (faulting, shaking, earthquake-induced landslides, liquefaction, and tsunamis) and four related to weather (flooding, landslides, wildfires, and drought). Maps of these hazards and risks are shown on the ABAG website at <http://quake.abag.ca.gov/mitigation/>.

EBRPD has reviewed the hazards identified and ranked the hazards based on past disasters and expected future impacts. The conclusion is that earthquakes (particularly shaking), flooding (including dam failure), wildfire, and landslides (including unstable earth) pose a significant risk for potential loss.

EBRPD does not face any natural disasters not listed in the ABAG multi-jurisdictional plan however new hazards listed in the update of ABAG’s multi-jurisdictional plan have been identified by the EBRPD since the original development of this plan in 2005. Additional hazards identified by the update that represent hazard to EBRPD include: Impacts to the Sacramento-San Joaquin Delta and policy decisions related to the long-term disaster resistance of that Delta system. EBRPD is susceptible to levee failure due to earthquakes, flooding, and climate change (including sea level rise and more frequent and more severe flooding) are all of concern.

For the development of this annex, EBRPD took advantage of the hazard maps available from ABAG at <http://quake.abag.ca.gov/mitigation/>. In addition to these maps, EBRPD has created a Fire Fuels Management Plan and Environmental Impact Report with detailed maps of fire treat and priority mitigation action for the Wildland Urban Interface along the East Bay Hills, see attached maps included as Exhibit C to the EBRPD 2010 Annex.

## Past Occurrences of Disasters (natural and human-induced)

EBRPD has experienced a number of different disasters over the last 50 years, including numerous earthquakes, floods, droughts, wildfires, energy shortages, civil disturbances, landslides, and severe storms. The Oakland Hills Firestorm of 1991, for example, ranks as one of the worst wildland-urban firestorm disasters to ever strike the United States with 25 deaths, 150 injuries, and the displacement of over 10,000 persons. With destruction and damage to over 3,400 residential units, losses were in excess of \$1.5 Billion. Because EBRPD owns and operates thousands of acres of open space and eucalyptus forests in this area, the 1991 Oakland Hills Fire Storm continues to greatly influence EBRPD planning, mitigation, fire response and operational activities.

The Loma Prieta Earthquake of 1989 is another example of the kind of large scale disaster which can strike the Bay Area. It killed 63 persons, injured 3,757, and displaced over 12,000 persons. With over 20,000 homes and businesses damaged and over 1,100 destroyed, this quake caused approximately \$6 Billion of damage. Reconstruction continues some two decades later as the replacement for Oakland-Bay Bridge is still several years from completion. There were few direct impact to EBRPD due to this Disaster.

In addition, EBRPD has been affected by damage from severe storms and weather over the past 20 years. EBRPD sustained significant damage from three declared disaster since 1997 all related to severe weather and damage from storms. In these disasters, EBRPD suffered damage due to flooding, landslides, debris flows and erosion.

- **March 29, 2006 to April 1, 2006 - 2006 Spring Storms - DR 1646 - EBRPD** suffered no significant damage from this declared disaster.
- **December 17, 2005 to January 12, 2006 - '05-'06 Winter Storms - DR 1628 - EBRPD** suffered over \$6 million in damages to 52 sites due to this disaster. EBRPD suffered damage due to flooding, landslides, debris flows and erosion
- **February 2, 1998 - El Nino - DR 1203 - EBRPD** suffered nearly \$1.2 million in damages to 34 sites due to this disaster. EBRPD suffered damage due to flooding, landslides, debris flows and erosion

More information on State and Federally declared disasters affecting EBRPD can be found at <http://quake.abag.ca.gov/mitigation/ThePlan-D-Version-December09.pdf>

In addition to the declared disasters noted in Appendix D, locally significant incidents that have also impacted EBRPD in the last several years include:

- **Cosco Busan Oil Spill, November 7, 2007 - 53,500 gallons of heavy fuel oil,** sometimes referred to as bunker fuel, spilled into San Francisco Bay. The East Bay's shoreline and wildlife were seriously affected by the spill. Beaches and shorelines were closed, but later reopened. EBRPD devoted much effort to the disaster since the East Bay was the area most impacted. The East Bay segments were the last ones to be signed off as cleaned because of the additional maintenance and monitoring that were required.
- **Dubai Star Oil Spill, October 30, 2009 - 422 gallons of heavy fuel oil,** sometimes referred to as bunker fuel, spilled into San Francisco Bay. Crown Memorial State Beach and other EBRPD shorelines including Middle Harbor and Martin Luther King Jr. Shoreline were immediately closed following the spill. On October 31, 2009, one day after the oil spill, tarballs and oil sheen appeared on the southern portion of Crown Beach. Clean-up crews responded and removed tarballs that continue to wash onto shore.

## Risk Assessment

### *Urban Land Exposure*

EBRPD examined the hazard exposure of urban park land in the EBRPD service area of Alameda and Contra Costa Counties based on information in ABAG's website at <http://quake.abag.ca.gov/mitigation/pickdbh2.html>. The "*2005 Existing Land Use with 2009 Mapping*" file was used for this evaluation (in the existing plan, the file used was "*Existing Land Use in 2000*").

In general, the hazard exposure of EBRPD is increasing over time as the amount of urban land increases (In the last 5 years, 68 acres of land has become urban). The following table described the exposure of urban land within the East Bay Regional Park District to the various hazards. EBRPD risks or vulnerabilities differ from the rest of the region or are at least more keenly focused on wildfire hazards. Other jurisdictions face wildfire, but EBRPD has a disproportionately large responsibility in this area.



Exposure (acres of urban land)			
Hazard	2005	2010	Change
<i>Total Acres of Urban Land</i>	16,357	16,425	68
Earthquake Faulting (within CGS zone)	608	667	59
Earthquake Shaking (within highest two shaking categories) <sup>1</sup>	2,749	11,226	8,477
Earthquake-Induced Landslides (within CGS study zone) <sup>2</sup>	1,699	3,355	1,656
Liquefaction (within moderate, high, or very high liquefaction susceptibility)	5,296	6,006	710
Flooding <sup>3</sup> (within 100 year floodplain)	1,378	1,418	40
Flooding (within 500 year floodplain)	442	747	305
Landslides (within areas of existing landslides)	2,282	2,055	(227)
Wildfire (subject to high, very high, or extreme wildfire threat) <sup>4</sup>	6,201	4,914	(1,287)
Wildland-Urban Interface Fire Threat	5,649	6,027	378
Dam Inundation (within inundation zone)	3,221	3,913	692
Tsunamis <sup>5</sup> (within inundation area)	not applicable		
Drought <sup>6</sup>	95,000	104,354	9,354

<sup>1</sup> In large part because the Hayward, Greenville, and Calaveras fault systems run through EBRPD.

<sup>2</sup> The California Geological Survey continues to map Alameda & Contra Costa County and added the Livermore-Altamont area in late 2009. Though some areas of EBRPD have not yet been completely mapped, the densely populated areas in Alameda & Contra Costa County are mostly done.

<sup>3</sup> Land exposure to flooding increased. Increase probably due to continued acquisition of shoreline parks and the restoration of wetland habitats under operation and management of the park district.

<sup>4</sup> The decrease is due to better and more accurate mapping.

<sup>5</sup> Tsunami evacuation planning maps were not available inside the San Francisco Bay in 2005. This map became available in December 2009. Acres of exposed land are not an appropriate analysis for this hazard. It should be noted that this map is not a hazard map and should be used for evacuation planning purposes only. The inundation line represents the highest inundation at any particular location from a suite of tsunami sources. It is not representative of any single tsunami.

<sup>6</sup> The entire EBRPD's area is subject to drought.

### *Infrastructure Exposure*

EBRPD does not own or maintain any transit, rail or public right-of-way roads. EBRPD does own and operate a system of over 100 miles of regional trails as well as park access roads and parking lots altogether totaling over 16 million square feet of pavement. EBRPD uses its pavement management system to evaluate the condition and threats to its paving infrastructure. EBRPD has developed mitigation strategies for the system and has an ongoing program to evaluate the pavement that is most threatened and in need of mitigation. Also, EBRPD will continue to clear fire fuels

vegetation from within 30 feet of access and evacuation roads and routes to critical facilities.

### *Exposure of EBRPD Owned Critical Facilities*

Finally, the EBRPD examined the hazard exposure of EBRPD-owned buildings based on the information [provided](#) by ABAG. EBRPD provided a list of the critical facilities it owns to ABAG. ABAG provided a detailed assessment of the hazard exposure of each of its facilities. EBRPD owns two critical facilities. Its emergency operations center (EOC) in Castro Valley and its district headquarters building in Oakland. The EOC is exposed to moderate wildfire threat, landslide, and earthquake shaking hazards. EBRPD headquarters building is exposed to dam inundation, high wildfire threat, and is within the wildland-urban interface fire threat.

### *Repetitive Loss Properties*

There are no repetitive loss properties in EBRPD based on the information at <http://quake.abag.ca.gov/mitigation/pickflood.html>. In 2004, EBRPD had no repetitive loss properties that were outside the flood plain.

### *Other risks*

EBRPD plans to continue to work with ABAG to improve the risk assessment information being compiled by ABAG, including developing ways to assess how many soft-story buildings are located in the unincorporated areas of EBRPD.

EBRPD plans to work with ABAG to develop specific information about the kind and level of damage to buildings, infrastructure, and critical facilities which might result from any of the hazards previously noted.

## **National Flood Insurance Program**

As a special district, EBRPD does not participate in the National Flood Insurance Program. EBRPD also does not participate in the Community Rating System.

## **Mitigation Goals**

The goal of the ABAG MJ-LHMP is to maintain and enhance a disaster-resistant region by reducing the potential for loss of life, property damage, and environmental degradation from natural disasters, while accelerating economic recovery from those disasters. This goal is unchanged from the 2005 plan and continues to be the goal of EBRPD in designing its mitigation program.

## Mitigation Activities and Priorities

### *Evaluation of Progress from 2005 Plan*

In 2005, mitigation actions and priorities were identified. The attached list indicates each of the strategies identified, along with responsible party, action taken, and current status of progress.

#### **Emergency Communications Center with Onsite Back Up Power**

- The project was completed.
- The project was completed by EBRPD's Maintenance and Skilled Trades Department and the EBRPD Police Communication Department.
- An on-site generator was installed. The project included the certification of the generators fueling system and the certified clean up an abandon fueling system at the site.
- The Emergency Communication System is in full 24/7 operation with on-site back up power.
- Related mitigation strategy number (GOVT-b-7 & INFR-a-8).

#### **Under-grounding utilities for protection, mitigating possible dangers from fire and windstorms**

- The strategy deferred. The planning team decided that the hazard from utilities with in EBRPD parklands was low and the amount of utilities was small and undergrounding of the few remaining above ground utilities was part of existing projects.
- EBRPD's Design and Construction Department is responsible for this strategy.
- The undergrounding of existing utilities was of little value to EBRPD facilities. The undergrounding of utilities remains a priority for new facilities.
- The project is general deferred although, EBRPD is look to underground facility on new project and project to upgrade substandard utility systems.
- Addressed mitigation strategy number (INFR-a-22 & GOVT-a-8)

#### **Fire Fuels Management Program**

- The strategy is in progress and has become an ongoing priority for EBRPD. The team has been consistently engage in this strategy and it continues to be a priority for the team.
- EBRPD Fire Department with assistance for the Land Stewardship and Planning Department are responsible for the project
- EBRPD has completed a Fire Fuels Management Plan and Environmental Impact Report for fire fuels management in the East Bay Hills. In addition, EBRPD has completed over \$1,500,000 in fire fuels management in the East Bay Hills over the past five years.
- This strategy has become an ongoing strategy of EBRPD. EBRPD has several grants in process and looks to continue to find ways to fund the project.

- Related mitigation strategy number (INFR-c-3, INFR-c-8 & ECON-e-6)

### ***Future Mitigation Actions and Priorities***

As a participant in the 2010 ABAG multi-jurisdictional planning process, the staff of EBRPD helped in the development and review of the comprehensive list of mitigation strategies in the overall multi-jurisdictional plan. The decision on priority was made based on a variety of criteria, not simply on an economic cost-benefit analysis. These criteria include being technically and administratively feasible, politically acceptable, socially appropriate, legal, economically sound, and not harmful to the environment or our heritage.

Representatives from the Chief of Maintenance & Skilled Trades, Legal Counsel, Risk Manager, Assistant General Manager of Development, Chief and Assistant General Manager of Operations, Assistant Fire Chief, Stewardship Manager, Chief Financial Officer/Controller, and Police Captain then reviewed progress on EBRPD's 2005 strategies, to identify and prioritize additional mitigation strategies to update the list. These mitigation strategies and priorities for the EBRPD are provided in **Exhibit D** to the EBRPD 2010 Annex.

These draft priorities were submitted to EBRPD's Board of Directors for review. The draft priorities will be provided to EBRPD's Board of Directors for adoption pending approval of this LHMP by FEMA.

EBRPD's planning team also prioritized specific mitigation tasks for the next 5 years. The team decided on these priorities based on the implementation process, funding strategy, and approximate time frame. Projects listed here were identified as having benefits that far outweigh the costs of their implementation.

### **Fire Fuels Management Program**

- The strategy is an ongoing priority for EBRPD.
- EBRPD has conducted cost benefit analyses for three separate projects and found the BCA approach 10:1 for some projects.
- EBRPD Fire Department with assistance for the Land Stewardship and Planning Department are responsible for the project
- EBRPD has dedicated approximately \$450,000 in Measure CC funds each year over the next ten years for fire fuels management. .
- In addition, EBRPD has several grants in process and looks to continue to find ways to fund the project
- Related mitigation strategy number (INFR-c-3, INFR-c-8, ECON-e-6, ECON-e-8 & ECON-e-7)

### **Completing the Infrastructure of the Interoperable Radio System**

- Working with the East Bay Regional Communications System Authority, the Alameda County Office of Homeland Security and Emergency Services, EBRPD is participating in completing the infrastructure of the interoperable radio system.

- EBRPD manages and operates its own radio telecommunications infrastructure which serves both our Public Safety Division and our Operations Division over our two-county jurisdiction. The system, which carries both voice and data communications, has recently had significant upgrades and is expected to be serviceable for many years to come. With that said, we recognize the need of our police officers and firefighters to have the ability to communicate with their colleagues due to our daily close working relationship with our allied agencies, and certainly in larger-scale public safety situations in which we frequently participate.
- EBRPD's Police Department, particularly the Communication Department is responsible for implementation of the project.
- EBRPD is working to obtain a solid estimate for the cost of the project and then identify funding sources for the project. The radio units themselves will likely be somewhere between \$3500 - \$5000 x 80 units = \$320,000 plus or minus. The project will need to be funded in the next two-three years and is challenge for future budget planning. EBRPD is investigating grant sources for the project.
- Related mitigation strategy number (INFR-a-21 & GOVT-c-7).

#### **Participate in the Hills Emergency Forum**

- *The October 1991 "Tunnel" fire in the Berkeley-Oakland Hills provided the impetus for the development of the Hills Emergency Forum. However, it was not the first major urban wildland intermix fire in this region. Historically the East Bay has proven prone to wildland fire. The area's recorded fire history shows 14 major fires since the first fire documented in 1923. When mapped it becomes apparent that the fires often reoccur in the same general areas and show similar environmental conditions.*
  - *The Oakland Hills fire took 25 lives, destroyed 3354 homes 456 apartments, burned 1600 acres; costing an estimated \$1.5 billion damages.*
- *EBRPD's Fire Department is responsible for this effort.*
- *The funding for this program in from EBRPD General Fund, both for funding as a member of the Hills Emergency Forum and for staffing necessary for support.*
- *The Hills Emergency Forum meets monthly and each year Executives from the member agencies meet to review accomplishments and set the agenda for future goals and objectives.*
- *EBRPD also participates in various Fire Safe Council programs and other multi-agency efforts to mitigate fire threat,*
- *EBRPD's participation has resulted in increasing its competitiveness in obtaining grants*
- *Related mitigation strategy number (GOVT-d-6).*

#### **On-Going Mitigation Strategy Programs**

EBRPD has many on-going mitigation programs that help create a more disaster-resistant region. The following list highlights those programs identified as *Existing*

*Programs* in the mitigation strategy spreadsheet. Others are on-going programs that are currently underfunded. It is the EBRPD's priority to find additional funding to sustain these on-going programs over time.

- Encourage the formation of a community- and neighborhood-based approach to wildfire education and action through local Fire Safe Councils and the Fire Wise Program. This effort is important because grant funds are currently available to offset costs of specific council-supported projects (ECON-j-9);
- Develop unused or new pedestrian rights-of-way as walkways to serve as additional evacuation routes (such as fire roads in park lands (INFR-a-10));
- Pre-position emergency power generation capacity (or have rental/lease agreements for these generators) in critical buildings of cities, counties, and special districts to maintain continuity of government and services (INFR-a-8);
- Ensure adequate fire equipment road or fire road access to developed and open space areas (INFR-c-7);
- Encourage the formation of a community- and neighborhood-based approach to wildfire education and action through local Fire Safe Councils and the Fire Wise Program. This effort is important because grant funds are currently available to offset costs of specific council-supported projects (ECON-j-9);
- Comply with all applicable building and fire codes, as well as other regulations (such as state requirements for fault, landslide, and liquefaction investigations in particular mapped areas) when constructing or significantly remodeling government-owned facilities (GOVT-a-11);
- Develop a plan for short-term and intermediate-term sheltering of your employees (GOVT- c-1);
- Periodically assess the need for new or relocated fire or police stations and other emergency facilities (GOVT-c-4);
- Maintain command vehicles for use as mobile command/EOC vehicles (GOVT-c-9);
- Maintain the local government's emergency operations center in a fully functional state of readiness (GOVT- c-10);
- Continue to participate not only in general mutual-aid agreements, but also in agreements with adjoining jurisdictions for cooperative response to fires, floods, earthquakes, and other disasters (GOVT- c-13);
- Monitor weather during times of high fire risk using, for example, weather stations tied into police and fire dispatch centers (GOVT-c-17);
- Increase local patrolling during periods of high fire weather (GOVT-c-19);

## **Incorporation into Existing Planning Mechanisms**

*Other plans within EBRPD that this plan can be incorporated into include:*

- ◆ Emergency Operations Plan
- ◆ Regional Parks 2010 Master Plan
- ◆ Capital Improvement Plan
- ◆ Fire Fuels Management Plan

EBRPD has a Safety Element in its Emergency Operations Plan that includes a discussion of fire, earthquake, flooding, and landslide hazards. This plan was adopted as an implementation appendix to the Emergency Operations Plan. In addition, EBRPD enforces the requirements of the California Environmental Quality Act (CEQA), which, since 1988, requires mitigation for identified natural hazards. EBRPD has used these pre-existing programs as a basis for identifying gaps that may lead to disaster vulnerabilities in order to work on ways to address these risks through mitigation. EBRPD will include hazard mitigation including many of its ongoing objectives in its 2010 Master Plan update. This plan will be incorporated most effectively in the discussion of EBRPD's commitment to Fire Fuels management. The Capital improvement plan guides all the projects of the District. EBRPD will include the mitigation strategies this plan in all of its capital funding decisions.

### **Plan Update Process**

As required Disaster Mitigation Act of 2000, EBRPD will update this plan annex at least once every five years, by participating in a multi-agency effort with ABAG and other agencies to develop a multi-jurisdictional plan.

The Management Services Division will ensure that monitoring of this Annex will occur. The plan will be monitored on an on-going basis. However, the major disasters affecting EBRPD, legal changes, notices from ABAG as the lead agency in this process, and other triggers will be used. Finally, the Annex will be a discussion item on the agenda of the meeting of Department leaders at least once a year in April. At that meeting, the department heads will focus on evaluating the Annex in light of technological and political changes during the past year or other significant events. The Department leaders will be responsible for determining if the plan should be updated.

EBRPD is committed to reviewing and updating this plan annex at least once every five years, as required by the Disaster Mitigation Act of 2000. The Management Services Division will contact ABAG four years after this plan is approved to ensure that ABAG plans to undertake the plan update process. If so, EBRPD again plans to participate in the multi-jurisdictional plan. If ABAG is unwilling or unable to act as the lead agency in the multi-jurisdictional effort, other agencies will be contacted, including the County's Office of Emergency Services. Counties should then work together to identify another regional forum for developing a multi-jurisdictional plan.

The public will continue to be involved whenever the plan is updated and as appropriate during the monitoring and evaluation process. Prior to adoption of updates, EBRPD will provide the opportunity for the public to comment on the updates. A public notice will be posted prior to the meeting to announce the comment period and meeting logistics.

# Exhibit A - District Boundary Map





## Exhibit B - Public Meeting Announcements

### EAST BAY REGIONAL PARK DISTRICT

RESOLUTION NO.: 2009 – 9 - 244

September 1, 2009

#### APPROVAL OF PUBLIC REVIEW AND RELEASE OF DRAFT LOCAL HAZARD MITIGATION PLAN AS REQUIRED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY

WHEREAS, on June 21, 2006, the Board of Directors of the East Bay Regional Park District passed Resolution #2006-06-151 joining the Association of Bay Area Governments' (ABAG) 2005 Local Hazard Mitigation Plan (LHMP); and

WHEREAS, ABAG is conducting an update to their plan in 2010, which means that the District needs to update its own LHMP accordingly; and

WHEREAS, as part of the 2010 LHMP update, the District is required to give the public two opportunities to give input on the attached Draft Mitigation Planning Strategies; and

WHEREAS, by discussing this item at today's meeting and posting on the District's website through September 27, 2009, the District will meet this requirement; and

WHEREAS, the update of the District's Local Hazard Mitigation Plan will uphold the District's eligibility in a variety of different grant programs for disaster mitigation funding from the Federal Emergency Management Agency (FEMA);

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of the East Bay Regional Park District hereby accepts any public comment offered for the attached Mitigation Planning Strategies and authorizes the posting of these Strategies on the District's website through September 27, 2009 for public review; and

NOW, THEREFORE, BE IT FURTHER RESOLVED that after receipt of public comments and approval from ABAG, staff will return to the Board in 2010 to request approval of the updated 2010 LHMP.

Moved by Director Sutter, seconded by Director Wieskamp, and adopted this 1<sup>st</sup> day of September, 2009 by the following vote:

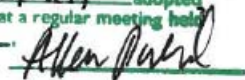
FOR: Whitney Dotson, Beverly Lane, Ted Radke, Carol Severin, Doug Siden, John Sutter, Ayn Wieskamp.

AGAINST: NONE.  
ABSTAIN: NONE.  
ABSENT: NONE.

  
Ted Radke, Board President

#### CERTIFICATION

I, Allen Pulido, Clerk of the Board of Directors of the East Bay Regional Park District, do hereby certify that the above and foregoing is a full, true and correct copy of Resolution No. 2009-9-244 adopted by the Board of Directors at a regular meeting held on SEPT 1, 2009.



SEE AND DO!

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PARK PLANNING » LAND USE PLANS

Land Use Plans  
Other Reports and Proposed Projects

Land Use Plans

A Land Use Plan (LUP) is the long-range plan for an entire park. It evaluates park resources, documents and recommends programs for managing and conserving these resources, discusses key planning issues, indicates relevant policies, and offers proposals for future recreational and service facilities to provide for the range of public recreational needs in the park. LUPs help the District and the public keep abreast of information that is critical to managing the parks wisely. An LUP typically includes a description and evaluation of existing facilities and natural and cultural resources; an assessment of public needs (which the District has ascertained by conducting surveys and receiving comment from residents); and a discussion of issues such as legal agreements and restrictions, adjacent land uses, pedestrian and vehicular access and circulation, parking, selection of appropriate recreational activities, and options for facilities and utility service. It also establishes Land Use Designations, which indicate the various levels of resource protection and recreational intensity in the parks. Not all regional parklands have LUPs; one of the District's long-term goals is to create an LUP for every park.

The following land use plans and environmental documents are currently available for public review:

Shadow Cliffs Regional Recreation Area

Public Meeting Summary

Public Input & Environmental Scoping Summary  
 Land Use Plan Amendment for Shadow Cliffs Regional Recreation Area  
 May 4, 2009 | Pleasanton Public Library  
[Download Summary \(2 pp.\)](#)

1989 Shadow Cliffs Land Use Plan

[Download \(3.2MB, 213 pp.\)](#)

2002 Shadow Cliffs Land Use Plan - Amendment

[Download \(1.2MB, 36pp.\)](#)

Pleasanton Ridge Regional Park

Notice of Public Meeting

Public Input & Environmental Scoping Meeting  
 Land Use Plan Amendment for Pleasanton Ridge Regional Park  
 7:00 - 9:00 PM Monday | June 29, 2009 | Amador High School  
[Download Notice \(1 pg.\)](#)

Other Plans, Projects and Environmental Review

In addition to land use plans, the District prepares a range of documents covering District-wide plans, feasibility studies, restoration and resource management plans and emergency repair projects. The District evaluates the environmental impact of planned projects in compliance with the California Environmental Quality Act (CEQA) and prepares the appropriate CEQA documentation for public review. The District will notify the public here about the publication of other plans and CEQA documents, as well as public comment periods and meeting schedules.

[Download: Infrastructure Mitigation Strategies \(08/24/2009\)](#)

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East Bay Regional Park District  
 2950 Peralta Oaks Court, Oakland, California 94605  
 1-888-EBPARKS or 1-888-327-2757 (Deaf or Hearing Impaired TDD: 510-633-0460)  
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LINKS

Master Plan 1997

(85-page, 3.6 MB, PDF document)

[Download the Master Plan 1997 in PDF format](#)

Wildland Management Policies

[Download Wildland Management Policies in PDF format](#)

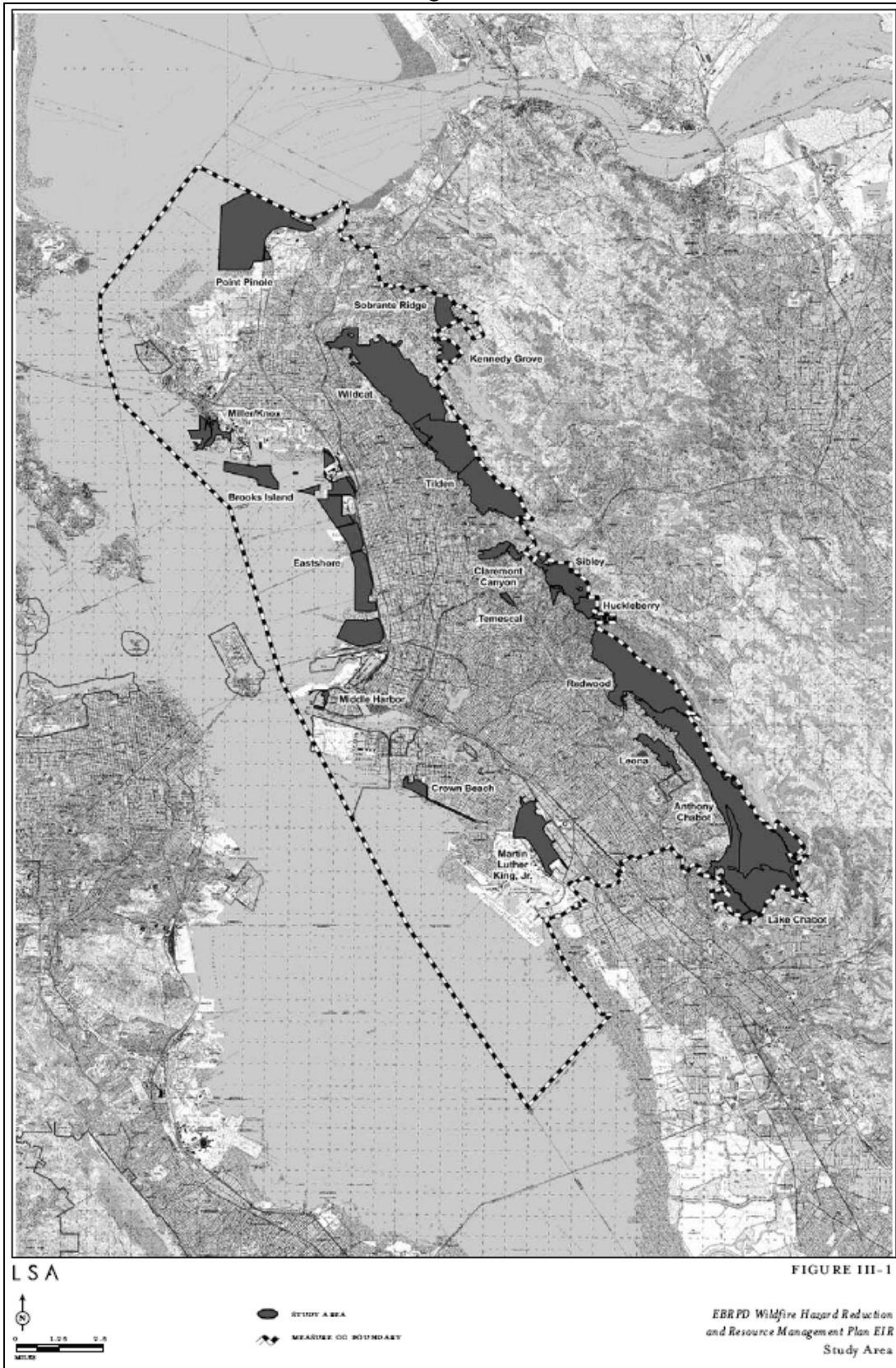
Public Meetings

[View agendas, minutes and reports of public meetings regarding park land use plans](#)

Press Releases

[See what is happening in the Park District](#)

# Exhibit C - EBRPD Fire Fuels Management Plan



**Exhibit D - EBRPD Mitigation Strategy Spreadsheet**